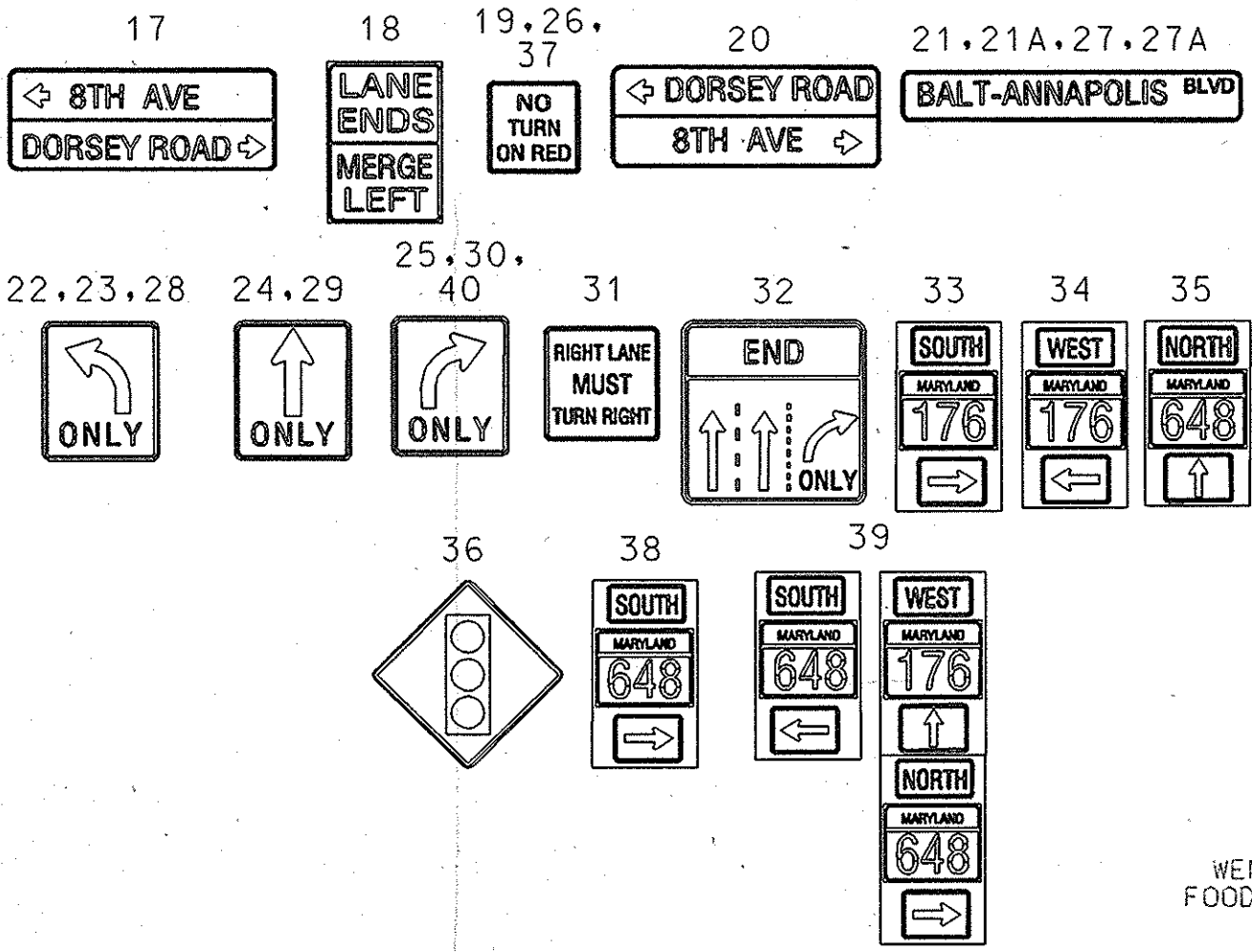
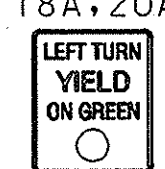


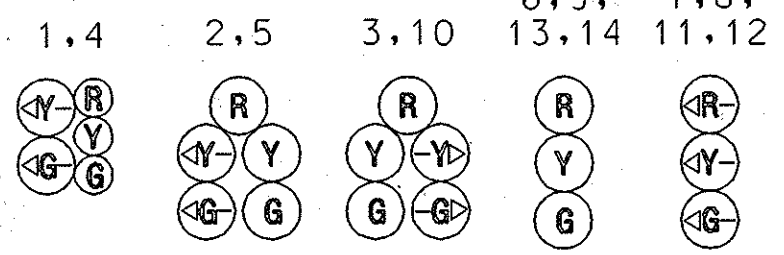
EXISTING SIGNS



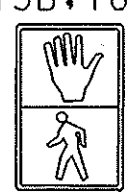
EXISTING SIGNS TO BE REMOVED



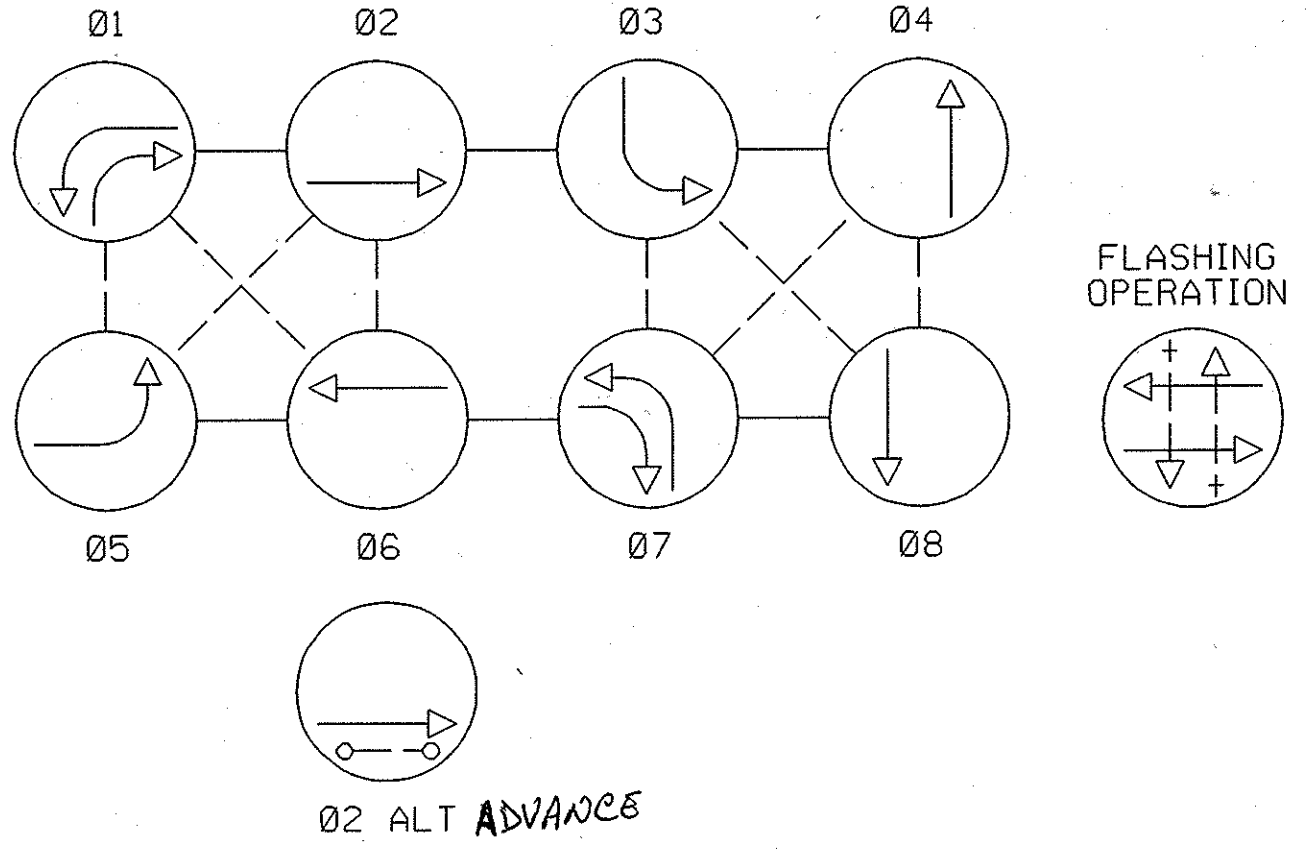
EXISTING SIGNALS



EXISTING SIGNAL TO BE REMOVED



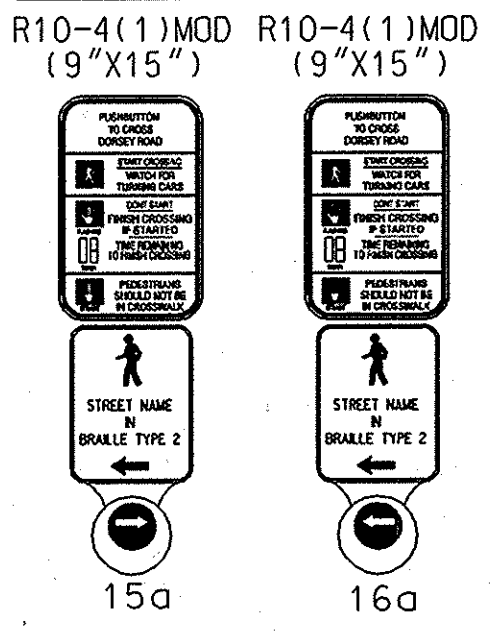
NEMA PHASING



PROPOSED SIGNALS



PROPOSED APS PUSHBUTTON STATION



TO INTERSTATE 97
MD 648 (BALTIMORE-ANNAPOLIS BLVD.)

MD 648 (BALTIMORE-ANNAPOLIS BLVD.)

TO MD 3 BUSINESS

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
2. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
6. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
7. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
8. ALL UNUSED SIGNAL CABLE SHALL BE REMOVED FROM ALL CONDUIT, HANDHOLES, SIGNAL STRUCTURES AND CABINET.

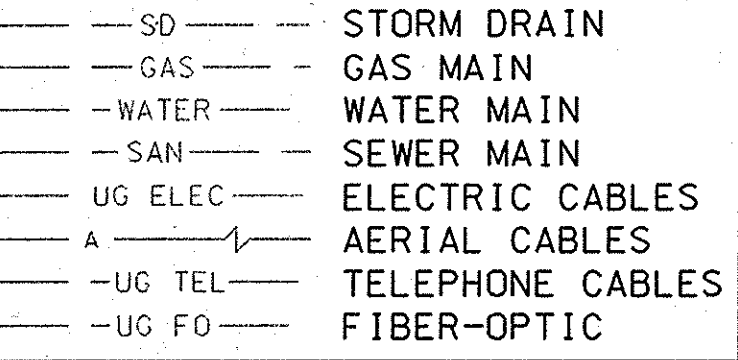
TOD NO: AT915-21
SHA No: AA487A55/C55
MD 176 @ MD 648

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 176 (DORSEY RD) @ 8TH AVE. AT MD 648 (BALTIMORE-ANNAPOLIS BLVD.)
GLEN BURNIE, MD.

GEOMETRIC LEGEND



UTILITY LEGEND



- CONSTRUCTION DETAILS**
- A. REMOVE EXISTING PEDESTRIAN SIGNAL, MOUNTING HARDWARE FROM PEDESTAL FROM PEDESTAL POLE. THEN INSTALL NEW 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION WITH NEW POLE TOP MOUNTING HARDWARE. REMOVE EXISTING PUSHBUTTON AND SIGN FROM POLE. THEN INSTALL R10-4(1) MOD. SIGN, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN WITH BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE.
 - B. INSTALL CONCRETE FOUNDATION WITH A 4 FT. PEDESTAL POLE WITH BREAKAWAY BASE WITH R10-4(1) MOD. SIGN, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN WITH BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRAILLE ON FACE PLATE. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - C. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - D. EXCAVATE AREA AROUND EXISTING HANDHOLE. ADJUST HANDHOLE TO GRADE AND USE HANDHOLE FOR SIGNAL CABLE INSTALLATION.
 - E. REMOVE EXISTING PAVEMENT MARKING AND INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
 - F. USE EXISTING HANDHOLE.
 - G. USE EXISTING CONDUIT.
 - H. INSTALL NON-INVASIVE PROBES WITH 500 FOOT LEAD IN. (TO BE PLACED IN THE THRU LANE).
 - I. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER AND ABANDON EXISTING LOOP DETECTORS.
 - J. USE EXISTING CABINET AND INSTALL NEW SIGNAL CABLES.
 - K. REMOVE EXISTING SIGN COMPLETELY FROM THE SPAN WIRE AND TETHER WIRE.
 - L. REMOVE EXISTING CONCRETE SIDEWALK AND INSTALL NEW DEPRESSED CURB AND GUTTER WITH DETECTABLE WARNING SURFACE. SEE MD STANDARD NO. 655.12 FOR RAMP DETAIL AND MD STANDARD 655.40 FOR DETECTABLE WARNING SURFACE DETAIL.
 - M. REMOVE EXISTING ASPHALT SIDEWALK AND INSTALL NEW DEPRESSED CURB AND GUTTER WITH DETECTABLE WARNING SURFACE. SEE MD STANDARD NO. 655.13 FOR RAMP DETAIL AND MD STANDARD 655.40 FOR DETECTABLE WARNING SURFACE DETAIL.
 - N. REMOVE EXISTING STRAIN POLE AND EXCAVATE AREA AROUND STRAIN POLE AND EXPOSE ANCHOR BOLTS, POLE BASE AND THE TOP OF CONCRETE FOUNDATION. GRADE AREA AROUND THE POLE STRUCTURE.
 - O. USE EXISTING STRAIN POLE AND EXCAVATE AREA AROUND STRAIN POLE AND EXPOSE ANCHOR BOLTS, POLE BASE AND THE TOP OF CONCRETE FOUNDATION. GRADE AREA AROUND THE POLE STRUCTURE.
 - P. INSTALL HANDHOLE.
 - Q. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT BORED.
 - R. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT BORED.

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 180
BALTIMORE, MD 21227
(410) 737-6664
WWW.SABRA-WANG.COM

APPROVALS	REVISIONS
TEAM LEADER, TRAFFIC ENGINEERING DIVISION	(G) SHA No. AT9155185 09/2007 TRAFFIC SIGNAL MODIFICATION INSTALL NEW NB APS AND CPS.
ASST. CHIEF TRAFFIC ENGINEERING DIVISION	SWA [Signature] G CHANGE SIGNAL PHASING TO CONCURRENT ALONG MD 176/8TH AVE.
CHIEF TRAFFIC ENGINEERING DIVISION	MAR DJD BRK E INSTALL LOOP DETECTORS AND STREET LIGHTING
DIRECTOR, OFFICE OF TRAFFIC & SAFETY	B.T. DJD DAZ ETP TH

SIGNAL PLAN	
SCALE 1"=20'	DATE N/A CONTRACT NO. AT9155185
DESIGNED BY S. RENZI	COUNTY ANNE ARUNDEL
DRAWN BY B. THOMPSON	LOGMILE 02017605.68
CHECKED BY D. DODA	TMS NO. I-027
FAP NO.	TOD NO.
TS NO. 816H	DRAWING 1 OF 2 SHEET NO. OF

PLOTTED: Monday, March 20, 2007 AT 11:31 AM
FILE: R:\2004\16 SHA RCS 2004-025 TEDD TrafficTask 28 MD 648 at MD 176(Dgn)\PSG-p001.dgn